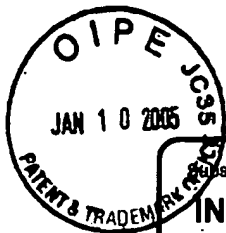




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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	09/886,479
				Filing Date	June 20, 2001
				First Named Inventor	Kenneth Hines
				Art Unit	2126
				Examiner Name	Lewis A. Bullock, Jr.
Sheet	2	of	2	Attorney Docket Number	42390P18907

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
<i>for</i>	10	BALL - DATA ACCESS AND TRANSPORTATION SERVICES FOR THE CORBA ENVIRONMENT	
<i>for</i>	11	BRUNNER - An object oriented approach to astronomical databases	
<i>for</i>	12	HARTER et al 1985 - IDD an interactive distributed debugger	
<i>for</i>	13	KUNZ et al - Poet Target system independent visualizations to complex distributed executions	
<i>for</i>	14	NETZER et al 1993 - Adaptive message logging for incremental program replay	
<i>for</i>	15	NEWMAN - Managing CORBA method servers: Part I of systems management of the distributed object environment	

Examiner Signature	<i>L A Bullock Jr</i>	Date Considered	4/15/05
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

†Applicant's unique citation designation number. ‡Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/088 (08-03) as modified by Blakely, Sokoloff, Taylor & Zafman (w/ 08/11/2003.  
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09/866,479

Reference No.	Application Serial No.	Patent No.	Title
<i>Sub</i> 1	09/885,456		SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS
2	EP 01950355.6		SYSTEM AND METHOD FOR COORDINATION CENTRIC DESING OF SOFTWARE SYSTEMS
3	EP 01948620.8		EVOLUTION DIAGRAMS FOR DEBUGGED DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS
4	EP 01948638.0		DATA STRUCTURE AND METHOD FOR DETECTING CONSTRAINT CONFLICTS IN COORDINATION CENTRIC SOFTWARE SYSTEMS
<i>Sub</i> 5	09/886,479		COORDINATION-CENTRIC FRAMEWORK FOR SOFTWARE DESIGN IN A DISTRIBUTED ENVIRONMENT
6	PCT US01/20071		SYSTEM AND METHOD FOR COORDINATION CENTRIC DESING OF SOFTWARE SYSTEMS
7	PCT US01/19735		EVOLUTION DIAGRAMS FOR DEBUGGED DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS
8	WO 02/073402A1		COORDINATION SYNTHESIS FOR SOFTWARE SYSTEMS
9	PCT US01/22031		DATA STRUCTURE AND METHOD FOR DETECTING CONSTRAINT CONFLICTS IN COORDINATION-CENTRIC SOFTWARE SYSTEMS
10	PCT US01/19735		EVOLUTION DIAGRAMS FOR DEBUGGING DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS

*for a Substantive*

4/15/05

Reference No.	Application Serial No.	Patent No.	Title
1	09/885,456		SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS
2	EP 01950355.6		SYSTEM AND METHOD FOR COORDINATION CENTRIC DESIGN OF SOFTWARE SYSTEMS
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7	PCT US01/19735		EVOLUTION DIAGRAMS FOR DEBUGGED DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS
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9	PCT US01/22031		DATA STRUCTURE AND METHOD FOR DETECTING CONSTRAINT CONFLICTS IN COORDINATION-CENTRIC SOFTWARE SYSTEMS
10	PCT US01/19735		EVOLUTION DIAGRAMS FOR DEBUGGING DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS
11	09/881391		SYSTEM AND METHOD FOR COORDINATION CENTRIC DESIGN OF SOFTWARE SYSTEMS
12	09/888,061		EVOLUTION DIAGRAMS FOR DEBUGGED DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS
13	09/885,448		BEHAVIORAL ABSTRACTIONS FOR DEBUGGING COORDINATION-CENTRIC SOFTWARE DESIGNS
14	09/886,459		DATA STRUCTURE AND METHOD FOR DETECTING CONSTRAINT CONFLICTS IN COORDINATION-CENTRIC SOFTWARE SYSTEMS
15	09/888,082		DYNAMIC CONTROL GRAPHS FOR ANALYSIS OF COORDINATION-CENTRIC SOFTWARE DESIGNS
16	10/040,971		COORDINATION SYNTHESIS FOR SOFTWARE SYSTEMS

*for a full set*

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09/886,479

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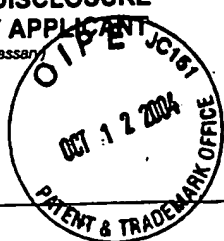
	Reference No.	Application Serial No.	Patent No.	Title
<i>yes</i>	1	<del>09/866,479</del> 09/886,479		COORDINATION-CENTRIC FRAMEWORK FOR SOFTWARE DESIGN IN A DISTRIBUTED ENVIRONMENT
<i>yes</i>	2	09/881391		SYSTEM AND METHOD FOR COORDINATION CENTRIC DESIGN OF SOFTWARE SYSTEMS
<i>yes</i>	3	09/888,061		EVOLUTION DIAGRAMS FOR DEBUGGED DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS
<i>yes</i>	4	09/885,448		BEHAVIORAL ABSTRACTIONS FOR DEBUGGING COORDINATION-CENTRIC SOFTWARE DESIGNS
<i>yes</i>	5	09/886,459		DATA STRUCTURE AND METHOD FOR DETECTING CONSTRAINT CONFLICTS IN COORDINATION-CONTRIC SOFTWARE SYSTEMS
<i>yes</i>	6	09/888,082		DYNAMIC CONTROL GRAPHS FOR ANALYSIS OF COORDINATION-CENTRIC SOFTWARE DESIGNS
<i>yes</i>	7	10/040,971		COORDINATION SYNTHESIS FOR SOFTWARE SYSTEMS

*L A Bullock Jr*

*4/15/05*

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	Application Number	09/886,479
	Filing Date	June 20, 2001
	First Named Inventor	HINES, Kenneth
	Group Art Unit	2122
	Examiner Name	Unknown
Sheet 1 of 2		Attorney Docket No: 42P18907



US PATENT DOCUMENTS						
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
JWS	US-5,581,691	12/03/1996	Hsu, et al.	395	182.13	08/18/1995
JWS	US-5,794,046	08/11/1998	Meier, et al.	395	704	06/05/1997
JWS	US-5,819,270	10/06/1998	Malone, et al.	707	7	
JWS	US-6,038,381	03/14/2000	Munch, et al.			11/25/1997
JWS	US-6,083,281	07/04/2000	Diec, et al.	717	128	11/14/1997
JWS	US-6,125,392	09/26/2000	Labatte, et al.	709	224	10/11/1996
JWS	US-6,134,676	10/17/2000	VanHuben, et al.	714	39	04/30/1998
JWS	US-6,347,374	02/12/2002	Drake, et al.	709	224	06/05/1998
JWS	US-6,539,501	03/25/2003	Edwards, J C.	717	128	12/16/1999

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS				T <sup>2</sup>
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
JWS		"COBRA Overview", (July 1995), 2-1 and 18-5		
JWS		BAECKER, R, et al., "Software visualization for debugging", <u>CACM Vol. 40, No. 4</u> , (April 1997), 44-54		
JWS		BATES, P.C., "Debugging programs in a distributed system environment", Ph.D. Thesis, University of Massachusetts, Amherst, (1986),		
JWS		BATES, P.C., et al., "High-level debugging of distributed systems: The behavioral abstraction approach", <u>The journal of systems and software</u> , Vol. 3, No. 4, (Dec. 1983), 255-264		
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JWS		COOPER, R, et al., "Consistent detection of global predicates", <u>ACM/ONR workshop on parallel &amp; distributed debugging</u> , (1991), 167-174		
JWS		FIDGE, C J., "Logical time in distributed computing systems", <u>IEEE Computer</u> , 24(8), (1991), 28-33		
JWS		GARG, V K., et al., "Detection of Weak Unstable Predicates in Distributed Programs", <u>IEEE Transactions on Parallel and Distributed Systems</u> Vol. %, No. 3 March 1994, (1994), 299-307		
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JWS		KHOUZAM, M, et al., "Single stepping in event-visualization tools", <u>In processing of the 1996 CAS conference</u> , (1996), 103-114		

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*[Signature]*

DATE CONSIDERED 4/15/05

Substitute Disclosure Statement Form (PTO-1448)

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	Application Number	09/886,479
	Filing Date	June 20, 2001
	First Named Inventor	HINES, Kenneth
	Group Art Unit	2122
	Examiner Name	Unknown
Sheet 2 of 2		Attorney Docket No: 42P18907

### OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
Jab		KOEHNEMANN, H, et al., "Towards target-level testing and debugging tools for embedded software", <u>Conference Proceedings on Tri-ADA '93</u> , (1993), 288-298	
Jab		KUNDU, J, "Integrating event- and state-based approaches to the debugging of parallel programs", Ph.D. thesis, <u>University of Massachusetts, Amherst</u> , (1996),	
Jab		KUNZ, T, "Abstract behavior of distributed executions with applications to visualization", Ph.D. thesis, <u>Technische Hochschule Darmstadt, Germany</u> , (1994),	
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Jab		MCMILLAN, F., "Symbolic Model Checking: An Approach to the State Explosion Problem", Ph.D Thesis, <u>Carnegie Mellon University</u> , (1992),	
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Jab		RUSSELL, D L., "State restoration in systems of communicating processes", <u>IEEE Transactions of software engineering</u> , vol. SE-6, No. 2, (1980), 183-194	
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Jab		TAYLOR, D J., "Event Displays for Debugging and Managing Distributed Systems", <u>International Workshop on Network and Systems Management</u> , (1995),	
Jab		TSAI, JJ P., et al., "A noninvasive architecture to monitor real-time distributed systems", <u>IEEE Computer</u> , 23, (1990), 11-23	
Jab		VALOT, C, "Characterizing the accuracy of distributed timestamps", <u>ACM/ONR Workshop on Parallel &amp; Distributed Debugging</u> , (1993), 43-52	
Jab		ZERNIK, D, et al., "Using visualization tools to understand concurrency", <u>IEEE Software</u> , 9(3), (1992), 87-92	

EXAMINER

DATE CONSIDERED

4/15/05

Substitute Disclosure Statement Form (PTO-1449)

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Sheet 1 of 2	
FORM PTO-1449 (REV. 7-80) <span style="float: right;">U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</span>	ATTY. DOCKET NO. 10488/15:1
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	
APPLICATION NO. 09/886,479	
APPLICANT Kenneth J. Hines	
FILING DATE June 20, 2001	GROUP 2122

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Jab	AA	6 0 5 2 5 2 7	4/18/00	Delcourt et al.	395	705	
Jab	AB	5 9 2 0 7 1 7	7/06/99	Noda	395	701	
Jab	AC	5 8 7 0 5 8 8	2/09/99	Rompaey et al.	395	500	
Jab	AD	5 8 1 9 2 7 0	10/06/98	Malone et al.	707	7	

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

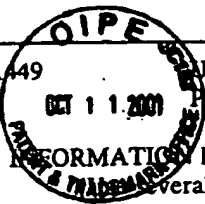
### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Jab	AE	[Barrett et al., 1996] Barrett, D.J., Clarke, L.A., Tarr, P.L., and Wise, A.E. 1996). A framework for event-based software integration. <i>ACM Transactions on Software Engineering and Methodology</i> , 5(4):378-421.
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Jab	AH	[Chou et al., 1998] Chou, P., Hines, K., Partridge, K., and Borriello, G. (1998). Control generation for embedded systems based on composition of modal processes. In <i>Proc. International Conference on Computer-Aided Design</i> .
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Jab	AL	[Gelernter and Carriero, 1992] Gelernter, D. and Carriero, N. (1992). Coordination languages and their significance. <i>Communications of the ACM</i> , 35(2):97-107.

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 8/5/04
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
10488/15:1APPLICATION NO.  
09/886,479INFORMATION DISCLOSURE CITATION  
(Attach several sheets if necessary)APPLICANT  
Kenneth J. HinesFILING DATE  
June 20, 2001GROUP  
2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Jab</i>	AM	✓ [Hines, 1996] Hines, K. (1996). A Framework for Embedded System Co-simulation with Dynamic Communication Support.
<i>Jab</i>	AN	✓ [Hodges, 1999] Hodges, W. (1999). Position paper. DARPA Workshop on Model-based Methods for Embedded Software Creation, (3 pgs).
<i>Jab</i>	AO	✓ [Lieberman, 1986] Lieberman, H. (1986). Using prototypical objects to implement shared behavior in object oriented systems. In <i>OOPSLA '86 Proceedings</i> .
<i>Jab</i>	AP	✓ [Selic, 1998] Selic, B. (1998). Using UML for Modeling Complex Real-Time Systems, pgs. 246-256.
<i>Jab</i>	AQ	✓ [Tallman and Kain, 1998] Tallman, O. and Kain, J.B. (1998). COM versus CORBA: A decision framework. <i>Distributed Computing</i> .

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Sheet 1 of 1

APPLICATION NO.  
09/886,479

**INFORMATION DISCLOSURE CITATION**  
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APPLICANT  
Kenneth J. Hines

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**U.S. PATENT DOCUMENTS**

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	BC						
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	BG						

**FOREIGN PATENT DOCUMENTS**

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	BH							
	BI							
	BJ							
	BK							
	BL							

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>fab</i>	BM	Agha, Gul, "Concurrent Object-Oriented Programming," <i>Communications of the ACM</i> , Vol. 33, No. 9 (September 1990), pp. 125-141.
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EXAMINER

DATE CONSIDERED

8/5/04

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ATTY. DOCKET NO.  
10488/15:1

APPLICATION NO.  
09/886,479



INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

APPLICANT: Kenneth J. Hines

FILING DATE:  
June 20, 2001

GROUP: 2122

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL					9		
	AM							
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>for</i>	AR	✓	Ken Hines and Gaetano Borriello, "A Geographically Distributed Framework for Embedded System Design and Validation," <i>Design Automation Conference, 1998, Proceedings San Francisco, CA, 1998, New York, NY, IEEE, June 15, 1998, pgs. 140-145.</i>
<i>for</i>	AS	✓	Gopalan Suresh Raj, "A Detailed Comparison of CORBA, DCOM and Java/RMI," <i>Web Comucopia, Online! 1998, &lt; URL: http://gsraj.ripod.com/misc/compare.html &gt;.</i>
<i>for</i>	AT	✓	Object Management Group, "The Common Object Request Broker: Architecture and Specification," <i>CORBA Overview, July 1995, pages 2-1-2-17, 4-1-4-6, 6-2-6-5.</i>

EXAMINER *L. A. Sella Jr.*

DATE CONSIDERED 8/5/04

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APPLICANT

Kenneth J. Hines

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## U.S. PATENT DOCUMENTS

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<i>fab</i>	AA	5	4	2	8	7	8	2		6/27/95	White	395	650	
<i>fab</i>	AB	5	6	4	2	4	7	8		6/24/97	Chen, et al.	395	183.21	
<i>fab</i>	AC	5	7	2	4	5	0	8		3/3/98	Harpic, Jr. et al.	395	200.04	
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	AJ													
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO
<i>fab</i>	AL	✓	EP	0	881	568	A	2		29.05.1998	Europe	G06F	9/46		
<i>fab</i>	AM	✓	EP	0	822	484	A	2		04.02.1998	Europe	G06F	9/44		
	AN														
	AO														
	AP														

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<i>fab</i>	AR	✓	Ken Hines and Gaetano Borriello, "Debugging Distributed Implementations of Modal Process Systems".												
<i>fab</i>	AS	✓	Pai Chou, Ken Hines, Kurt Partridge and Gaetano Borriello, "Control Generation for Embedded Systems Based on Composition of Modal Processes," pp. 46-53.												
<i>fab</i>	AT	✓	Pai H. Chou and Gaetano Borriello, "Synthesis and Optimization of Coordination Controllers for Distributed Embedded Systems," pp. 410-415.												

EXAMINER

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09/886,479

APPLICANT

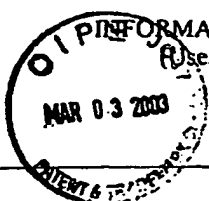
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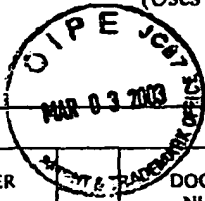
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*L. A. Bell*

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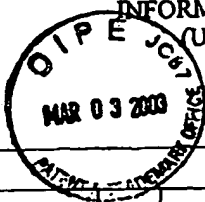
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<i>fas</i>	AT	✓	Stephen Edwards, Luciano Lavagno, Edward A. Lee, et al., "Design of Embedded Systems: Formal Models, Validation, and Synthesis," Proceedings of the IEEE, Vol. 85, No. 3, March 1997, pp. 366-389.

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	AT	

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*R. A. Heller Jr.*

DATE CONSIDERED

8-5-04

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